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Services which may have been impacted in the 1100 Area

GROUNDWATER

- drinking water
- recharge to surface water
- provision for aquatic habitat
- irrigation/stock: agri-use
- bequest
- existence
- aesthetic
- restricting development potential

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SURFACE WATER:

- subsistence fishing
- recreational fishing
- off-site commercial
- waterfowl
- plant gathering
- spiritual or ceremonial uses of surface water
  - inhalation of water in a sweat house
  - cerimonial use of salmon
  - drinking
- drinking water
- recreation/water sports
- existence
- bequest
- irregation/agricultural
- stock water

SOILS

- provision for terrestrial habitat
- medium for vegetative growth
  - gardening
  - gathering
  - agriculture
  - wildlife habitat
- burrowing animals
- rangeland
- land use
- materials source
- habitat for soil biota
- nutrient recycling

AIR:

- recreation
- traditional Native American uses
- wildlife

BIOLOGICAL

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#### COMMENTS AND QUESTIONS DURING THIS DISCUSSION

- There may be a double accounting problem with this in regard to the 300 Area
- Access or no access to the groundwater could affect the ability to develop economically in the region or could restrict use
- Is the groundwater ever going to get to the surface
- Studies say no, but there may need to be an independent evaluation done
- Damages can't be assessed on theoretical injuries
- There may be lost income to the community in recreational dollars
- Groundwater reaching surface water may need to be characterized as slim possibility; but if it does happen, it could be devastating
- The idea is there are impacts to natural resources that reduce services
- The next step is to quantify loss of services
- Restoration would look at how to restore those services that have been reduced
- The most basic PAS must answer 5 questions, the first 2 or 3 are relatively easy; the last 2 are more difficult to answer
- The idea of the assessment would be to look at how to bring back the services were lost
- The question is can we identify lost services realistically, or assess injuries, or would the remediation that is planned be too expensive
- We assume there's been an injury because there has been a release
- For groundwater, there has been an injury, for soil, there has been an injury; you have an injury, how do you quantify it, what do you want out of restoration, how much could you get for a restoration
- Is there sufficient data available, or can data be acquired to proceed
- At the next meeting, perhaps we could have something to look at regarding answering cost/benefit analysis

Callie:  
I hope this is what you  
needed. I added a few comments  
here for a frame of reference.  
Let me know if there's anything  
else you need.

Linda